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SEQUENCE LISTING

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Neeper, Michael P.

<120> PROTEIN DELIVERY SYSTEM USING HUMAN
PAPILLOMAVIRUS VIRUS-LIKE PARTICLES

<130> 20276P

<140> 09/762,794

<141> 2001-02-09

<150> PCT/US99/17931

<151> 1999-08-10

<150> 60/096,638

<151> 1998-08-14

<160> 16

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

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27

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<210> 3

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

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<220>
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<220>
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20

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 <212> DNA
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<220>
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42

<210> 8
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 <212> DNA
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<400> 8
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<210> 9
 <211> 240
 <212> DNA
 <213> Human

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attgctgatac	aaatattaca	atatggaagt	atgggtgtat	tttttggtgg	gttaggaatt	180
ggaacagggt	cgggtacagg	cggacgcact	gggtatatct	cattgggaac	aaggcctccc	240

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 <212> DNA
 <213> Human

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acatctgtac	cttccatccc	cccagatgta	tcaggattta	gtattactac	ttcaactgat	180
accacacctg	ctatattaga	tattaataat	actgttacta	ctgttactac	acataataat	240
cccactttca	ctgacccatc	tgtattgcag	cctccaacac	ctgcagaaac	tggagggcat	300
tttacacttt	catcatccac	tattagtaca	cataattatg	aagaaattcc	tatggatata	360
tttattgtta	gcacaaaacc	taacacagta	actagtagca	caccataacc	agggctctcg	420
ccagtggcac	gcctaggatt	atatagtcgc	acaacacaa	aagttaaagt	tgtagaccct	480
gcttttgtaa	ccactcccac	taaacttatt	acatatgata	atcctgcata	tgaagggtata	540
gatgtggata	atacattata	ttttcctagt	aatgataata	gtattaatat	agctccagat	600
cctgactttt	tggatatagt	tgtctttacat	aggccagcat	taacctctag	gcgtactggc	660
attaggtaca	gtagaattgg	taataaaca	acactacgta	ctcgtagtgg	aaaatctata	720
gggtgctaagg	tacattatta	ttatgatttg	agtactattg	atcctgcaga	agaaatagaa	780
ttacaaacta	taacaccttc	tacatatact	accacttcac	atgcagcctc	acctacttct	840
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<210> 11
 <211> 282
 <212> DNA
 <213> Human

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actgaccaag	ctccttcatt	aattcctata	gttccagggt	ctccacaata	tacaattatt	180
gctgatgcag	gtgactttta	tttaccatcct	agttattaca	tgttacgaaa	acgacgtaaa	240
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 <212> DNA
 <213> Human

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attgctgatac	aaatattaca	atatggaagt	atgggtgtat	tttttggtgg	gttaggaatt	180
ggaacagggt	cgggtacagg	cggccgcgag	ctcgagggtt	atattcctgc	aaatacaaca	240
attccttttg	gtgggtgcata	caataattcct	ttagtatcag	gtcctgatat	accattaat	300
ataactgacc	aagctccttc	attaattcct	atagttccag	gggtctccaca	atatacaatt	360
attgctgatg	cagggtgactt	ttattttacat	cctagttatt	acatgtttacg	aaaacgcagct	420
aaacggtttac	catatTTTTT	ttcagatgtc	tctttggctg	cctag		465

<210> 13
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 <212> PRT
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<400> 13

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Ile Pro Lys Val Glu Gly Lys Thr Ile Ala Asp Gln Ile Leu Gln Tyr
      35           40           45
Gly Ser Met Gly Val Phe Phe Gly Gly Leu Gly Ile Gly Thr Gly Ser
      50           55           60
Gly Thr Gly Gly Arg Glu Leu Glu Gly Tyr Ile Pro Ala Asn Thr Thr
65           70           75           80
Ile Pro Phe Gly Gly Ala Tyr Asn Ile Pro Leu Val Ser Gly Pro Asp
      85           90           95
Ile Pro Ile Asn Ile Thr Asp Gln Ala Pro Ser Leu Ile Pro Ile Val
      100          105          110
Pro Gly Ser Pro Gln Tyr Thr Ile Ile Ala Asp Ala Gly Asp Phe Tyr
      115          120          125
Leu His Pro Ser Tyr Tyr Met Leu Arg Lys Arg Arg Lys Arg Leu Pro
      130          135          140
Tyr Phe Phe Ser Asp Val Ser Leu Ala Ala
145           150

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<210> 14
<211> 30
<212> DNA
<213> Artificial Sequence

```

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<220>
<223> PCR Primer

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<400> 14
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30

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<210> 15
<211> 40
<212> DNA
<213> Artificial Sequence

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<220>
<223> PCR Primer

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<400> 15
gcggccgcga gctcgagggt tatattcctg caaatacaac

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40

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<210> 16
<211> 35
<212> DNA
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<220>
<223> PCR Primer

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<400> 16
gtctacagag aaaccgacgg atctctagac ctccc

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35